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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/567,253	02/06/2006	Hideyuki Takai	3273-0218PUS1	3053	
2292 75591 109302008 BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747			EXAM	EXAMINER	
			MCCULLEY, MEGAN CASSANDRA		
			ART UNIT	PAPER NUMBER	
		1796			
			NOTIFICATION DATE	DELIVERY MODE	
			10/30/2008	ELECTRONIC	

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

### Application No. Applicant(s) 10/567,253 TAKAI ET AL. Office Action Summary Examiner Art Unit Megan McCulley 1796 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 15 July 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.4.7 and 8 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1.4 and 8 is/are rejected. 7) Claim(s) 7 is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

3) Information Disclosure Statement(s) (PTO/SE/08)
Paper No(s)/Mail Date \_\_\_\_\_\_

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

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#### DETAILED ACTION

#### Claim Objections

Claim 7 is objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot depend from any other multiple dependent claim.

See MPEP § 608.01(n). Accordingly, the claim 7 has not been further treated on the merits.

### Claim Rejections - 35 USC § 102

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1, 4 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Takai (US 2003/0059618).

Regarding claims 1 and 8: Takai teaches a composition comprising an epoxy resin composition and a cationic polymerization initiator (paras. 35-36). The composition comprises 10-100 parts by weight of an alicyclic epoxy compound which has no ester groups (formula (I)), and 0 to 90 parts by weight of another epoxy compound. This overlaps the claimed percentages of the ester-free alicyclic epoxy compound and the other epoxy compound. Also disclosed is the cationic polymerization initiator in an amount of 0.05-5 parts by weight to 100 parts by weight of the epoxy resin (para. 86), which overlaps the claimed range (paras. 35-36). Takai further teaches a compound of a copolymer having at least one glycidyl group and/or alicyclic epoxy group in the

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molecule in an amount of 1-50 parts by weight to 100 parts by weight of the sum of the two epoxy compounds (para. 36). The copolymer contains glycidyl acrylate monomers, which makes it an acrylic resin (para. 135). Takai further teaches the copolymer containing glycidyl acrylate monomers also contains hydroxyethyl acrylate, which would give the copolymer hydroxyl groups (para. 137).

Regarding claim 4: Takai teaches the compound:

[9036] (wherein X represents a divalent group selected from oxygen atom, salifur atom, —SO, —SO, —, —SO, —, —C(CH<sub>3</sub>), —, —C(CH<sub>3</sub>), —, —C(CH<sub>3</sub>), —, —C(CH<sub>3</sub>), —, —C(CH<sub>3</sub>), —, —C(CH<sub>3</sub>), —, or a single bond inkting two altoyethe rings; and R in R is a sea or different and each represents hydrogen atom, halogen atom, a hydrocarbon group which may contain oxygen atom or halogen atom, and an altoxyd group which may have substitutent groups; lo 10 90 parts by weight of a

have substituent groups); 0 to 90 parts by weight of a X can be a single bond (paras. 35-36).

### Response to Arguments

Applicant's arguments filed on June 18<sup>th</sup> and July 15<sup>th</sup> have been fully considered but they are not persuasive, because:

A) Applicant's argument that Takai does not disclose using an acrylic resin having both epoxy groups and hydroxyl groups is not persuasive. The copolymer (F) taught in Takai is a copolymer of acrylate monomers. Acrylate monomers, when polymerized, become acrylic resins. One monomer has an epoxy group, such as Art Unit: 1796

glycidyl acrylate (para. 135). When polymerized, the epoxy group remains unreacted so that the final polymer has pendant epoxy groups along the polymer backbone. Similarly, a hydroxyl functional monomer is also reacted such as hydroxyethyl acrylate (para. 137). This monomer also polymerizes along the double bond of the acrylate group leaving the hydroxyl functional moiety unreacted and pendant along the polymer

backbone. Therefore, an acrylic resin containing glycidyl/epoxy groups and hydroxyl groups is disclosed.

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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#### Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Megan McCulley whose telephone number is (571)270-3292. The examiner can normally be reached on Monday - Friday 7:30-5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Eashoo can be reached on (571) 272-1197. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mark Eashoo, Ph.D./
Supervisory Patent Examiner, Art Unit 1796

/M. M./ Examiner, Art Unit 1796